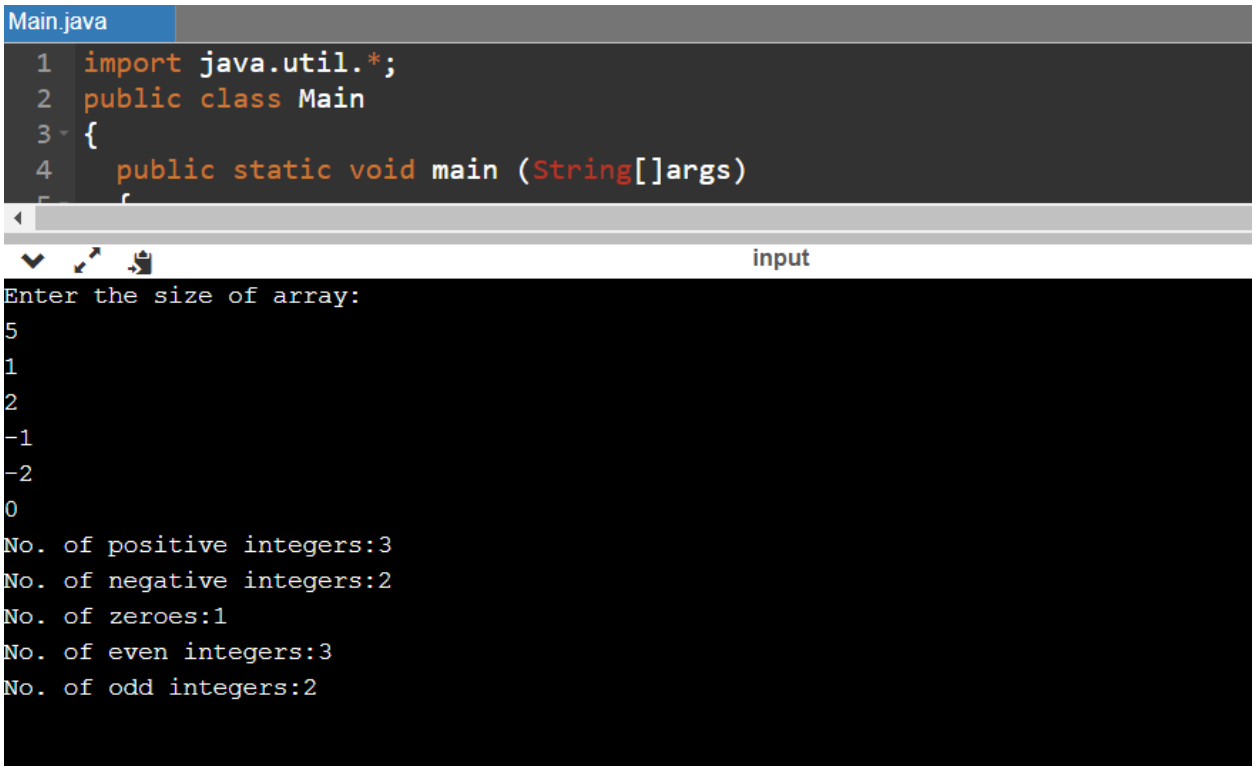
SALMA 20BCE7605

QUESTION 1 :



Code:

```
import java.util.*;

public class Main

{

  public static void main (String[]args)
```

```
{
  Scanner sc = new Scanner (System.in);
  int positive = 0, negative = 0, odd = 0, even = 0,
zero = 0;
    System.out.println ("Enter the size of array:");
  int n = sc.nextInt ();
  int arr[] = new int[n];
  for (int i = 0; i < n; i++)
    {
    arr[i] = sc.nextInt ();
    }
  for (int i = 0; i < n; i++)
    {
    if (arr[i] >= 0)
      {
```

```
        positive++;
      }
    }
    System.out.println ("No. of positive integers:" +
positive);
    for (int i = 0; i < n; i++)
    {
    if (arr[i] < 0)
      {
        negative++;
      }
    }
    System.out.println ("No. of negative integers:" +
negative);
    for (int i = 0; i < n; i++)
```

```
  {
  if (arr[i] == 0)
    {
      zero++;
    }
  }
System.out.println ("No. of zeroes:" + zero);
for (int i = 0; i < n; i++)
  {
  if (arr[i] % 2 == 0)
    {
      even++;
    }
  else
```

```
        odd++;
      }
System.out.println("No. of even integers:"+even);
System.out.println("No. of odd integers:"+odd);
  }
}
```

OUTPUT


```
Enter the size of array:
5
1
2
-1
-2
0
```

No. of positive integers: 3

No. of negative integers: 2

No. of zeroes : 1

No. of even integers: 3

No. of odd integers: 2

QUESTION 2:

Main.java

```java
import java.util.*;
public class Main
{
        public static void main(String[] args)
        {
                int j=0;
                int[] arr=new int[100];
                int[] rev=new int[100];
                Scanner sc=new Scanner(System.in);
```

input

```
Enter element:
2
4
5
6
1
Reverse array is as follows:
1 6 5 4 2
```

Code

```
import java.util.*;
public class Main
{
    public static void main(String[] args)
    {
        int j=0;
        int[] arr=new int[100];
        int[] rev=new int[100];
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter size of array:");
        int n=sc.nextInt();

        System.out.println("Enter element:");
```

```
            for(int i=0;i<n;i++)
                arr[i]=sc.nextInt();
            for(int i=n-1;i>=0;i--)
            {
                rev[j]=arr[i];
                j++;
            }
        System.out.println("Reverse array is as
follows:");

            for(int i=0;i<n;i++)
            System.out.print(rev[i]+" ");
        }
}
```

Output

Enter size of array:

5

Enter element:

2

4

5

6

1

Reverse array is as follows:

1 6 5 4 2

QUESTION 3:

Main.java

```java
import java.util.*;
public class Main
{
    public static void main (String[] args)
    {
        Scanner sc = new Scanner (System.in);
        System.out.print("Enter size of array:");
```

input

```
Enter size of array:5
Enter all the elements:
1
2
3
6
5
The largest number of this array is 6.
The 2nd largest number of this array is 5.
```


Code

```java
import java.util.*;
public class Main
{
    public static void main (String[] args)
    {
        Scanner sc = new Scanner (System.in);
        System.out.print("Enter size of array:");
```

```
        int n = sc.nextInt();

        int arr[] = new int[n];
        System.out.println("Enter all the
elements:");
        for (int i = 0; i < array.length; i++)
        {
            arr[i] = sc.nextInt();
        }

        int first, second, temp;

        first= array[0];
        second = array[1];
```

```
if (first < second)
{
    temp =  first;
    first =second;
    second= temp;
}

for (int i =2; i< arr.length; i++)
{
    if (arr[i] > first)
    {
        second =first;
        first = arr[i];
    }
```

```
            else if (arr[i] > second && arr[i] !=
first)
            {
                second = arr[i];
            }
        }

        System.out.println ("The largest number of
this array is " +first+".");
        System.out.println ("The 2nd largest
number of this array is " + second+".");

    }
}
```

OUTPUT

Enter size of array:5

Enter all the elements:

1

2

3

6

5

The largest number of this array is 6.

The 2nd largest number of this array is 5.
